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Destroyers Fail Could 360 Chagle To Find Trace Of Lost NC-3

Continued from preceding page

missing; beat fleating high; no serious damage apparent. Fairfax will tow to Horta as soon as practicable, depending on state of sea." The cable was

ing on state of sea. The cable was sent at 8 a. m. and was signed by Admiral Jackson.

"Received 4:15 p. m. from Rear Admiral Jackson at Ponta Delgada:

"Present weather conditions westerly the sky overcast, visibility, with gale, sky overcast, visibility eight miles, sea rough. Forecast continues strong southwesterly or westerly winds to-day, becoming westerly to northwesterly and diminishing in velocity Sunday night or early Monday morning. 1308 (9 a. m., New York

"Received at 4:17 p. m. from Admiral Jackson: 'All available destroyers joining scouting line north from Corvo, scouting westward. U. S. S. Columbia directing the scouting line. Texas and Florida have been ordered to join in garch for NC-3. 1250 (8:30 New York posed competitive flight across the At-

NC's Designed To Bomb U-Boats

Transatlantic 'Planes Suggested in 1917 by Admiral Taylor

WASHINGTON, May 18.—American naval scaplanes, which have under-taken the first flight across the Atlaninitiating their design Rear Admiral David W. Taylor, chief of the bureau of construction and repair, had in mind the construction of ships capable of fying across the ocean, so as to avoid difficulties of delivery during the war. This was disclosed to-day by the Navy Deparament, which made public the following memorandum sent by Admiral Taylor on August 25, 1917, to Naval Constructor W. C. Westervelt, his assistant for aeronauties.

promise of being a success, and if we can push shead on the airplane end it to me the submarine menage could be abated, even if not destroyed,

"The ideal solution would be big flying boats or the equivalent that would be able to keep the sea (not air) in any weather and also able to fly across the Atlantic to avoid difficulties of de-

the problem with his assistants, di- Navigator of the Sopwith 'plane rected the preparation of tentative which flew for Ireland yesterday.

Curtiss, of the Curtiss Aeroplane and Motor Corporation, and his engineers, W. L. Gilmore and Henry Kleckler, and Handyside firms. They have been came to Washington at the navy's in- well aware that success on the part of of the ship. A three-loot model of the would be regarded as the actual pio-design made exactly to scale was test-neers of air travel across the Atlantic.

Construction work began in Creinber Roth Hawker and Raynham have told and commander H. C. Richard and a me at different times that a successful mayal constructor, was directed to deflight between America and Great Brit-sign the hull of the boat. A series of ain was their life ambition. In 1913

the decision to place the wings of the than Raynham at the latter's mishap. NC2 on her, and thus only three ves. Neither of them cares for the plaudits were left available for the start of a solo accomplishment where the of the flight.

Pan-American Aero Convention Praises

Navy for Sea Flight designer of the NCs. As a matter of fact, every aeronautical enthusiast in

ATLANTIC CITY, N. J., May 18. A the world has hoped that the United resolution congratulating the Navy Destates would attain distinction in partment and those who had a hand in aerial effort. The backwardness of this the transfer of the secondary heretofore has not been the the transatiantic flight of the navy's teaplanes was adopted at to-night's fault of American aircraft designers tession of the Second Pan-American Aeronautic Convention. The resolu-Aeronautic Convention. The resolu-lantic flight by American flying craft "Whereas, the members of the Pan-

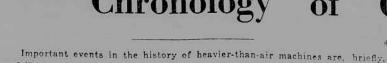
American Aeronautic Convention heard with applause the decision to bridge by air the great span between the Oid World and the New and have viewed with admiration each step conceived and executed:

"Resolved, that we, in formal con-Vention assembled, hereby tender our most hearty congratulations to the Secretary of the United States Navy and those of his department whose cooperation has secured for this hemi-sphere such a proud moment of peace ful triumph, and to the crews whose endurance and during have made their country pioneers in such courageous aeronautic achievement."

Raynham Mishap Blow to Hawker

Zest of Sea Race Marred When Briton Is Forced to Make Flight Alone

By Harry E. Tudor Director, the Air Pilots' Bureau Knowing both Hawker and Raynham ough active association with British I can say that each regarded their pro-



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lantic as an aeronautic duel, pure and

COMMANDER MACKENZIE

GRIEVE

Flight Their Life Ambition

Chronology of Conquest of

1500-Baptiste Dante made glider flights near Lake Trasimene, Italy.

1500 Leonardo da Vinci sketched a parachute, an ornithopter and a helicopter. 1742 - Marquis de Bacqueville, using imitation flapping wings, flew from his house on the Seine to Garden of Tuileries.

1781-Karl Meerwein, of Baden, computed the area of a spindle-shaped man-supporting surface, frem proportions of bird weight and wing surface. These figures were later substantiated by Lillienthal. Aviator was fastened to the middle of the under surface, holding a rod which operated the

the ground and sailed from hilltops.

1842-Hanson patented a monoplane to be driven by a steam engine. It had a wing span of 140 feet.

1855-Captain Le Bris made a partially successful flight with his glider. 1871-M. A. Penaud built a toy model which flew 131 feet in the Garden of the

1877-William Kress made a model fitted with two propellers and double control. 1890-Clement Ader, near Gretz, France, experimented with a monoplane driven by a forty horse-power motor. 1891—Lillienthal began experimental flights with monoplane gliders near Berlin. 1893—Horatio Phillips constructed a multiplane aeroplane, with wings superim-

posed, after the principle of Wenham. It was equipped with a 5.5 horse-power motor and one propeller. 1894 Sir Hiram Maxim built a three-man carrying machine with propellers operated by a 360 horse-power engine. Total weight 8,000 pounds. Machine 1911-

 1895—Percy S. Pilcher built monoplane gliders which operated successfully.
 1896—Professor S. P. Langley's steam-driven toy monoplane model flew over the Potomac successfully for over 3,000 feet, at from twenty to twenty-The best of friends personally, they 1896-

both regarded winning the trans-atlantic pennant as part of the day's 1900-Wilbur and Orville Wright experimented with pladers with arched surfaces

1906—Santos-Dumont made the first officially recorded European flight, leaving the ground for a distance of thirty-six feet at the rate of twenty-three miles per hour. In another flight he remained in the air twenty-

one seconds and flew a distance of 700 feet, winning prize offered by French Aero Club. 1907—Delagrange demonstrated a Voisin biplane, and Henry Farman, an Englishman, flew a Voisin over 2,500 feet in 52.5 seconds in a straight line.

1908—Henry Farman made a complete circuit of about a mile in one and one-half minutes. Delagrange flew at Milan in a Voisin machine, covering a distance of ten and one-half miles in sixteen minutes. Glenn H. Curtiss flow his June Rug at the rate of Thirty nine miles ner hour. H. Curtiss' flew his June Bug at the rate of Thirty-nine miles per hour Henry Farman remained in air for 21.5 minutes, flying three-quarters of a mile and carrying a passenger. Orville Wright made official flights at the Camp of Auyours, surpassing French records for duration, distance and height. Later he made a flight of one hour's duration, followed by one of one hour and thirty-one minutes' duration. followed by one of one hour and thirty-one minutes' duration, covering

great aeronautical salon held in Paris, more than a dozen full-sized achines being exhibited. Orville Wright made flight of two hours nd nineteen minutes' duration, with passenger.

1909—Captain Spelterini, an Italian officer, explored the Alps in neighborhood of Mont Blanc. Latham, in trial miles over the Channel, fell into the sea seven miles from shore. Bleriot crossed the Channel from Calais to Dover in thirty-seven minutes. Glenn H. Curtiss won the James Gordon Bennett Cup in an international speed race at Rheims. Attained a speed of forty-three miles per hour in Curtiss machine. Seven aeroplanes were in air. Wilbur Wright flew around the Statue of Liberty in New York Harbor. Henry Farman broke the world's record for distance, covering 145 miles in four hours, eighteen minutes and fifty-three seconds. Paulhan broke the world's record for altitude, atwings. One attempt by Meerwein was unsuccessful.

1809—Sir George Cayley built a glider of 300-foot wing surface which skimmed

the ground and suited from billions.

flight of ferty-two minutes eleven and two-fifths seconds. Paulhan surpassed Latham by climbing 4,163 feet. Demonstrated bombing rom aeroplane. Sommer established the world's record in flight with a live thing to every man, woman and three passengers, covering 4.3 miles. Curtiss made Albany-Governor's child in the country Island flight of 135.4 miles in two hours and thirty-two minutes. It It is equally, or per three passengers, covering 4.3 miles. Curtiss made Albany-Governor's Island flight of 135.4 miles in two hours and thirty-two minutes. It was the first flight in which a river was used as a guide in aerial highway. Latham surpassed Paulhan in altitude flight, attaining 4,541 feet at Rheims. Curtiss, leaving Atlantic City, flew over sea for a distance of 49.6 miles in one hour and fifteen minutes at height of 1,600 feet. McCurdy received and sent wireless messages from an aeropiane at Sheepshead Bay. Drexel, at Lanark, raised world's record for altitude to 6,604 feet. Leblanc flew one mile in fifty-three seconds, breaking speed record. Legagneaux set altitude record for the year at 19,171 feet at Pau. Labuteau set distance record for the year of 362 miles at Buc.

miles at Buc.

Curtiss successfully rose from water, making a sustained and controlled flight after experiments extending over several years. Eugene Ely alighted on and flew from the deck of a battleship at San Francisco.

McCurdy flew from Key West to shore off Havana, a dfstance of ninetynine miles, in two hours. Lincoln Beachey flew over Niagara Falls and through the Gorge. C. T. Weyman flew a Nieuport monoplane at eighty miles per hour. Prier flew from London to Paris, 290 miles, without a stop.

and adjustable rudder in front.

1903—Wright brothers' machine, weighing 750 rounds, flew at speed of thirty to thirty-five miles per hour for period of twelve seconds.

1912—Fowler flew across continent from Jacksonville, Fla., to San Francisco, 2.232 miles, thus making the first transcontinental flight. Lieutenant Andreadi flew from Sebastopol to Odessa and Petrograd, covering 1,880 2.232 miles, thus making the first transcontinental flight. Lieutenant be run as they wish."

Andreadi flew from Sebastopol to Odessa and Petrograd, covering 1.860

Mine weeks ago the running in twenty-seven days. miles in twenty-seven days. Lieutenant Lybousky flew from Sebastopol direct to Petrograd, a distance of 1,612 miles, in thirty days. Garros set altitude for year of 18,480 feet at Tunis. Jules Vedrines won the James Gordon Bennett Cup, flying a 140 horse-power Deperdussin moreplane at 105 miles per hour.

Bielovucio, flying a Hauriot, crossed the Alps. Perreyon set altitude record for year of 19,270 feet. Prevost established speed record of 126,59 miles

moroplane at 105 miles per hour.

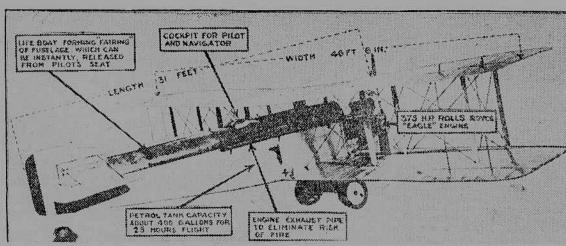
Biclovucio, flying a Hauriot, crossed the Alps. Perreyon set altitude record for year of 19,270 feet. Prevost established speed record of 126.59 miles per hour. Robert Fowler flew across Isthmus of Panama. Brindejonc flew from Paris to Warsaw, stopping at Berlin, a distance of 933 miles, in eleven hours. Verplank and Haven made an all-water trip from Chicago to Detroit, following the line of the Great Lakes. Distance, 880 miles. Pegoud made the first voluntary loop-the-loop, in a Bleriot monoplane. Sopwith produced the first small, high-speed biplane of the "scout" class, with a speed of ninety-two miles per hour.

Trials of the America, a Curtiss flying boat, built to fly across the Atlantic.

forty-two miles. He also made another flight of one hour's duration developed to its highest degree, with many new commercial and battle models produced.

to Rheims, a distance of sixteen miles, in twenty minutes. The first 1919—American NC scaplanes make successful 'cross-ocean flight.

THE SOPWITH BIPLANE



Detail of Harry G. Hawker's machine, which yesterday flew from Newfoundland for Ireland.

and American crews will supply the necessary impetus to commercial aviation throughout the United States.

The supplemental maker and Raymann have to the surface sending set was discarded at Trepassey, N. F., before the machine instruments in such manner as to receive the surface sending set was discarded at Trepassey, N. F., before the machine instruments in such manner as to receive the surface sending set was discarded at Trepassey, N. F., before the machine instruments in such manner as to receive the surface sending set was discarded at Trepassey, N. F., before the machine instruments in such manner as to receive the surface sending set was discarded at Trepassey, N. F., before the machine instruments in such manner as to receive the surface sending set was discarded at Trepassey, N. F., before the machine instruments in such manner as to receive the surface sending set was discarded at Trepassey, N. F., before the machine instruments in such manner as to receive the surface sending set was discarded at Trepassey, N. F., before the machine instruments in such manner as to receive the surface sending set was discarded at Trepassey, N. F., before the machine instruments in such manner as to receive the surface sending set was discarded at Trepassey, N. F., before the machine instruments in such manner as to receive the surface sending set was discarded at Trepassey, N. F., before the machine instruments in such manner at the surface sending set was discarded at Trepassey, N. F., before the machine instruments in such manner at the surface sending set was discarded at Trepassey, N. F., before the machine instruments in such manner at the surface sending set was discarded at the surface s There are to-day thousands of experi-Constructors McEates seaplane race around Britain. It was in the towing basin at sheer determination under the disading the towing basin at sheer determination under the disading the towing basin at sheer determination under the disading the towing basin at sheer determination under the disading the towing the towing

He can couple up the wireless telephone set with which the seaplane is equipped to the "skid fin" aerial the Washington Navy Yard and the best of the screen was adopted.

The engine plant design was the work of the Bureau of Steam Engineering and it was decided to instal three Liberty meters. In December, 1917, a contract was made with the Curties company for building four of Curties company for building four of the screen was adopted.

The engine plant design was the condition that brought him through.

On being complimented on his pluck lems of many of them.

On being complimented on his pluck lems of many of them.

NC-3 Able to Signal

On Ten-Mile Circuit miles, which if persistently kept up might be caught by one of the search-

Bit, a contract was made with the pond." Following this event flawer returned to Australia and became identified with acronautical progress, the context was made by a number of factories. The NC-1, the first of the boats, was completed and made assecsful flight on October 4, 1918.

The month of November was spent in that country, breaking various minor changes 4 was apparent that the flying part of the craft could country and flying part of the craft could count and flying part of the craft could country and flying destroyers.

The NC-3 All to Signature and flow

Gets All Flight News

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leather, and dark tan leather with leather sole and heel.

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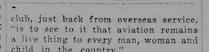
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all the time to be made to realize tha

Nine weeks ago the new organization

American seaplanes in flying across the Atlantic from Newfoundland to the Azores, and say that May 17 marks one of the great events in the history

sat at their ease getting the freshest details of the big feat toward which the eyes of the world were turned.

Louis Bleriot, in the "Excelsior," recalls his flight across the English Channel ten years ago. He said his That is a sample of the sort of ser- flight at that time was deemed an ex vice the latest aviation club in America traordinary performance, but it was is going to render its members. It is a sample, too, of the sort of service liant exploit of the American naval that the club purposes to pass on to officers. He declares that none better the public as soon as its machinery is fully operating.

"Our object," said Lieutenant John P. Cahen, speciai representative of the Prench aviators showed the way.

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'get there."

It is priced \$49.50 in the sale, and would usually be \$58,50. This is the sort of trunk that outwears travel. It is an open bulge top model, fitted with boltless interlocker. Built on threeply basswood veneer box, fibre inside and out, brass reinforced. Has twelve combination hangers, strapless retainer, bag for soiled linen and complete compartments for underwear, hats and shoes. Size, 45 x 221/2 x 211/2 inches.

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A good, sturdy cowhide suitcase that would usually be \$17.74 is priced \$13.49. And with the saving you can buy a matting case at \$4.24, which would usually be

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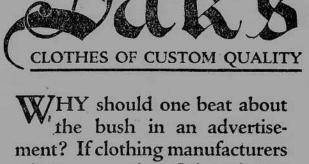
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zest of the contest has been marred. So far as Great Britain is con-cerned the congratulations of the en-tire nation will be most sincerely ac-corded the commanders and crews and

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flannel trousers.

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